

Section II-iii-A

Soil Erodibility (K) Factor and Soil-loss Tolerance (T) Value

General

Soil erodibility factors (K) and soil-loss tolerances (T) are used in an equation that predicts the amount of soil loss resulting from rainfall erosion of cropland. The soil-loss prediction procedure is useful to guide the selection of practices for soil and water conservation. The procedure is outlined and illustrated in Agricultural Handbook No. 537.

Soil Erodibility (K) Factor

The soil erodibility factor "K" indicates the susceptibility of a soil to sheet and rill erosion by water. Soil properties that influence erodibility by water are: (1) Those that affect infiltration rate, movement of water through the soil, and water storage capacity; and (2) those that resist dispersion, splashing, abrasion, and transporting forces from rainfall and runoff. Soil properties that are most important are percent silt plus very fine sand, percent organic matter, percent sand coarser than very fine sand, structure, and permeability. "Kw" is an erodibility factor which quantifies the susceptibility of the soil particles to detachment and movement by water, this factor is adjusted for the effect of rock fragments. "Kf" is an erodibility factor which quantifies the susceptibility of the soil particles to detachment by water.

Soil-loss Tolerance (T) Factor

The soil-loss tolerance factor "T" is an estimate of the maximum annual rate of soil erosion that can occur over a sustained period without affecting crop productivity. The rate is expressed in tons of soil loss per acre per year. Rates of 1 through 5 are used, depending upon soil properties and prior erosion.

Soil-loss tolerances were subjectively evaluated, based on the following general guides:

1. Maintenance of an adequate rooting depth for crop production.
2. Potential crop yield reduction.
3. Maintenance of water control structures affected by sedimentation.
4. Prevention of gullies.
5. Value of nutrients lost.

Wind Erosion

Potential erodibility from wind erosion is estimated by multiplying the following factors of the Wind Erosion Equation (WEQ).

1. Climatic characterization of windspeed and surface soil moisture (C)
2. The susceptibility of the soil to wind erosion (I)

The erodibility index for wind erosion is represented by the formula CI/T . A soil map unit is highly erodible if the CI/T value equals or exceeds 8.

Physical Properties of the Soils

Knox And Lincoln Counties, Maine

Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
AdB: Adams	0-6	---	---	0-5	1.00-1.30	6-20	0.06-0.12	0.0-2.9	2.0-5.0	.17	.17	5	2	134
	6-22	---	---	0-5	1.10-1.45	6-20	0.03-0.10	0.0-2.9	1.0-3.0	.17	.17			
	22-60	---	---	0-5	1.20-1.50	20-100	0.03-0.04	0.0-2.9	0.0-0.5	.17	.17			
AdC: Adams	0-6	---	---	0-5	1.00-1.30	6-20	0.06-0.12	0.0-2.9	2.0-5.0	.17	.17	5	2	134
	6-22	---	---	0-5	1.10-1.45	6-20	0.03-0.10	0.0-2.9	1.0-3.0	.17	.17			
	22-60	---	---	0-5	1.20-1.50	20-100	0.03-0.04	0.0-2.9	0.0-0.5	.17	.17			
AdD: Adams	0-6	---	---	0-5	1.00-1.30	6-20	0.06-0.12	0.0-2.9	2.0-5.0	.17	.17	5	2	134
	6-22	---	---	0-5	1.10-1.45	6-20	0.03-0.10	0.0-2.9	1.0-3.0	.17	.17			
	22-60	---	---	0-5	1.20-1.50	20-100	0.03-0.04	0.0-2.9	0.0-0.5	.17	.17			
AgA: Allagash	0-8	---	---	3-13	0.95-1.25	0.6-2	0.16-0.22	0.0-2.9	0.0-2.0	.28	.28	3	3	86
	8-28	---	---	2-12	1.20-1.50	0.6-2	0.10-0.24	0.0-2.9	0.5-4.0	.28	.28			
	28-60	---	---	2-5	1.35-1.65	6-20	0.06-0.18	0.0-2.9	0.0-0.5	.28	.28			
AgB: Allagash	0-8	---	---	3-13	0.95-1.25	0.6-2	0.16-0.22	0.0-2.9	0.0-2.0	.28	.28	3	3	86
	8-28	---	---	2-12	1.20-1.50	0.6-2	0.10-0.24	0.0-2.9	0.5-4.0	.28	.28			
	28-60	---	---	2-5	1.35-1.65	6-20	0.06-0.18	0.0-2.9	0.0-0.5	.28	.28			
AgC: Allagash	0-8	---	---	3-13	0.95-1.25	0.6-2	0.16-0.22	0.0-2.9	0.0-2.0	.28	.28	3	3	86
	8-28	---	---	2-12	1.20-1.50	0.6-2	0.10-0.24	0.0-2.9	0.5-4.0	.28	.28			
	28-60	---	---	2-5	1.35-1.65	6-20	0.06-0.18	0.0-2.9	0.0-0.5	.28	.28			
Be:														

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
Be: Beaches	0-6	---	---	0-1	1.35-1.85	6-20	0.03-0.05	0.0-2.9	0.0-0.1	.05	---	5	1	310
	6-60	---	---	0-1	1.35-1.85	6-20	0.03-0.05	0.0-2.9	0.0-0.1	.05	---			
Bg: Biddeford	0-12	---	---	0	0.10-0.30	0.2-6	0.20-0.45	---	30-99	---	---	3	8	0
	12-16	---	---	20-50	0.90-1.20	0.2-2	0.24-0.34	0.0-2.9	0.0-10	.32	.32			
	16-32	---	---	35-55	1.30-1.70	0.0000-0.2	0.13-0.23	3.0-5.9	0.5-3.0	.49	.49			
	32-60	---	---	35-55	1.40-1.80	0.0000-0.2	0.06-0.16	3.0-5.9	0.0-0.5	.49	.49			
BoB: Boothbay	0-6	---	---	10-25	1.00-1.30	0.6-2	0.22-0.30	0.0-2.9	3.0-6.0	.32	.32	3	5	56
	6-28	---	---	18-35	1.20-1.50	0.06-0.6	0.14-0.22	0.0-2.9	0.5-2.0	.49	.49			
	28-60	---	---	18-35	1.55-2.00	0.06-0.6	0.10-0.20	0.0-2.9	0.0-0.5	.49	.49			
BoC: Boothbay	0-6	---	---	10-25	1.00-1.30	0.6-2	0.22-0.30	0.0-2.9	3.0-6.0	.32	.32	3	5	56
	6-28	---	---	18-35	1.20-1.50	0.06-0.6	0.14-0.22	0.0-2.9	0.5-2.0	.49	.49			
	28-60	---	---	18-35	1.55-2.00	0.06-0.6	0.10-0.20	0.0-2.9	0.0-0.5	.49	.49			
BoD2: Boothbay	0-3	---	---	10-25	1.00-1.30	0.6-2	0.22-0.30	0.0-2.9	3.0-6.0	.32	.32	3	5	56
	3-25	---	---	18-35	1.20-1.50	0.06-0.6	0.14-0.22	0.0-2.9	0.5-2.0	.49	.49			
	25-60	---	---	18-35	1.55-2.00	0.06-0.6	0.10-0.20	0.0-2.9	0.0-0.5	.49	.49			
Bp: Borosapristis	0-10	---	---	0	0.10-0.30	0.2-6	0.20-0.50	---	80-99	---	---	3	8	0
	10-65	---	---	0	0.10-0.30	0.2-6	0.20-0.50	---	80-99	---	---			
BsB: Brayton	0-8	---	---	4-10	1.00-1.30	0.6-2	0.18-0.25	0.0-2.9	2.0-8.0	.24	.24	2	3	86
	8-16	---	---	4-10	1.40-1.65	0.6-2	0.12-0.28	0.0-2.9	0.5-2.0	.32	.37			
	16-60	---	---	4-10	1.70-2.00	0.06-0.6	0.01-0.06	0.0-2.9	0.0-0.5	.24	.28			

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
BsB:														
BtB:														
Brayton	0-8	---	---	4-10	1.00-1.30	0.6-2	0.18-0.28	0.0-2.9	4.0-8.0	.20	.28	2	8	0
	8-16	---	---	4-10	1.40-1.65	0.6-2	0.12-0.28	0.0-2.9	0.5-2.0	.32	.37			
	16-60	---	---	4-10	1.70-2.00	0.06-0.6	0.01-0.06	0.0-2.9	0.0-0.5	.24	.28			
BuB:														
Buxton	0-8	---	---	15-30	0.90-1.20	0.2-2	0.25-0.30	0.0-2.9	3.0-8.0	.32	.32	3	6	48
	8-15	---	---	20-45	1.10-1.55	0.06-0.6	0.13-0.28	3.0-5.9	0.5-3.0	.49	.49			
	15-36	---	---	20-45	1.40-1.70	0.0000-0.2	0.10-0.16	3.0-5.9	0.0-1.0	.49	.49			
	36-60	---	---	35-55	1.40-1.80	0.0000-0.2	0.06-0.16	3.0-5.9	0.0-0.5	.49	.49			
BuC:														
Buxton	0-8	---	---	15-30	0.90-1.20	0.2-2	0.25-0.30	0.0-2.9	3.0-8.0	.32	.32	3	6	48
	8-15	---	---	20-45	1.10-1.55	0.06-0.6	0.13-0.28	3.0-5.9	0.5-3.0	.49	.49			
	15-36	---	---	20-45	1.40-1.70	0.0000-0.2	0.10-0.16	3.0-5.9	0.0-1.0	.49	.49			
	36-60	---	---	35-55	1.40-1.80	0.0000-0.2	0.06-0.16	3.0-5.9	0.0-0.5	.49	.49			
BuD2:														
Buxton	0-4	---	---	15-30	0.90-1.20	0.2-2	0.25-0.30	0.0-2.9	3.0-8.0	.32	.32	3	6	48
	4-11	---	---	20-45	1.10-1.55	0.06-0.6	0.13-0.28	3.0-5.9	0.5-3.0	.49	.49			
	11-32	---	---	20-45	1.40-1.70	0.0000-0.2	0.10-0.16	3.0-5.9	0.0-1.0	.49	.49			
	32-60	---	---	35-55	1.40-1.80	0.0000-0.2	0.06-0.16	3.0-5.9	0.0-0.5	.49	.49			
Ch:														
Charles	0-6	---	---	2-18	0.90-1.35	0.6-2	0.20-0.40	0.0-2.9	5.0-10	.32	.32	5	3	86
	6-60	---	---	2-18	1.00-1.50	0.6-2	0.20-0.40	0.0-2.9	1.0-4.0	.49	.49			
Dp:														
Dumps	0-60	---	---	---	---	---	0.00	---	---	---	---	---	8	0
Pits	0-60	---	---	0	---	---	0.00	---	---	---	---	---	8	0

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

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										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
Dp:														
EgB:														
Eldridge	0-8	---	---	1-5	1.40-1.60	6-20	0.10-0.18	0.0-2.9	2.0-4.0	.24	.24	5	2	134
	8-27	---	---	1-5	1.60-1.80	6-20	0.06-0.11	0.0-2.9	---	.24	.24			
	27-60	---	---	3-18	1.50-1.80	0.06-0.6	0.19-0.21	0.0-2.9	---	.43	.43			
HeB:														
Hermon	0-6	---	---	2-6	0.85-1.20	2-20	0.09-0.20	0.0-2.9	3.0-7.0	.17	.17	5	3	86
	6-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HeC:														
Hermon	0-6	---	---	2-6	0.85-1.20	2-20	0.09-0.20	0.0-2.9	3.0-7.0	.17	.17	5	3	86
	6-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HtB:														
Hermon	0-1	---	---	2-6	0.85-1.20	2-20	0.07-0.15	0.0-2.9	0.0-2.0	.10	.17	5	8	0
	1-3	---	---	2-6	0.85-1.20	2-20	0.07-0.20	0.0-2.9	3.0-7.0	.10	.15			
	3-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HtC:														
Hermon	0-1	---	---	2-6	0.85-1.20	2-20	0.07-0.15	0.0-2.9	0.0-2.0	.10	.17	5	8	0
	1-3	---	---	2-6	0.85-1.20	2-20	0.07-0.20	0.0-2.9	3.0-7.0	.10	.15			
	3-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HtD:														

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
HtD: Hermon	0-1	---	---	2-6	0.85-1.20	2-20	0.07-0.15	0.0-2.9	0.0-2.0	.10	.17	5	8	0
	1-3	---	---	2-6	0.85-1.20	2-20	0.07-0.20	0.0-2.9	3.0-7.0	.10	.15			
	3-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HxB: Hermon	0-1	---	---	2-6	0.85-1.20	2-20	0.05-0.13	0.0-2.9	0.0-2.0	.10	.17	5	8	0
	1-3	---	---	2-6	0.85-1.20	2-20	0.06-0.14	0.0-2.9	3.0-7.0	.10	.15			
	3-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
HxC: Hermon	0-1	---	---	2-6	0.85-1.20	2-20	0.05-0.13	0.0-2.9	0.0-2.0	.10	.17	5	8	0
	1-3	---	---	2-6	0.85-1.20	2-20	0.06-0.14	0.0-2.9	3.0-7.0	.10	.15			
	3-22	---	---	2-7	0.85-1.30	2-20	0.05-0.10	0.0-2.9	0.5-3.0	.10	.17			
	22-60	---	---	1-4	1.10-1.70	6-20	0.02-0.06	0.0-2.9	0.0-0.5	.10	.17			
Le: Lovewell	0-12	---	---	2-14	0.95-1.35	0.6-2	0.20-0.35	0.0-2.9	2.0-8.0	.32	.32	5	3	86
	12-29	---	---	2-15	0.95-1.40	0.6-2	0.20-0.45	0.0-2.9	0.5-2.0	.49	.49			
	29-45	---	---	2-10	1.10-1.50	0.6-2	0.18-0.40	0.0-2.9	0.0-1.0	.49	.49			
	45-60	---	---	0-2	1.30-1.50	0.6-20	0.04-0.08	0.0-2.9	0.0-0.5	.20	---			
LmB: Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
Brayton Variant	0-3	---	---	4-10	1.00-1.25	0.6-2	0.12-0.24	0.0-2.9	4.0-8.0	.24	.28	2	8	0
	3-20	---	---	4-10	1.35-1.60	0.6-2	0.10-0.20	0.0-2.9	0.5-2.0	.24	.28			
	20-32	---	---	4-10	1.55-1.85	0.06-0.6	0.08-0.16	0.0-2.9	0.0-0.5	.24	.28			
	32-36	---	---	---	---	0.010-20	---	---	---	---	---			

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
LmB:														
Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
LrB:														
Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
Tunbridge	0-2	---	---	5-9	0.80-1.20	0.6-6	0.11-0.21	0.0-2.9	2.0-8.0	.20	.24	2	8	0
	2-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.24			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
LrC:														
Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
Tunbridge	0-2	---	---	5-9	0.80-1.20	0.6-6	0.11-0.21	0.0-2.9	2.0-8.0	.20	.24	2	8	0
	2-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.24			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
LrE:														
Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
LrE: Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
Tunbridge	0-2	---	---	5-9	0.80-1.20	0.6-6	0.11-0.21	0.0-2.9	2.0-8.0	.20	.24	2	8	0
	2-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.24			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
MaB: Madawaska	0-10	---	---	3-13	0.95-1.25	0.6-2	0.16-0.25	0.0-2.9	2.0-9.0	.28	.28	3	3	86
	10-28	---	---	2-12	1.00-1.50	0.6-2	0.10-0.22	0.0-2.9	0.5-4.0	.28	.28			
	28-60	---	---	0-5	1.25-1.65	6-20	0.06-0.18	0.0-2.9	0.0-0.5	.17	.17			
MrB: Marlow	0-8	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
MrC: Marlow	0-8	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
MrD: Marlow	0-8	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
MsB: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
MsC: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
MsD: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
MtB: Marlow	0-8	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
Berkshire	0-8	---	---	3-10	1.10-1.15	0.6-6	0.10-0.22	0.0-2.9	2.0-5.0	.24	.24	5	3	86
	8-24	---	---	3-10	1.15-1.30	0.6-6	0.10-0.20	0.0-2.9	---	.32	.37			
	24-60	---	---	1-10	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9	---	.24	.28			
MtC: Marlow	0-8	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
Berkshire	0-8	---	---	3-10	1.10-1.15	0.6-6	0.10-0.22	0.0-2.9	2.0-5.0	.24	.24	5	3	86
	8-24	---	---	3-10	1.15-1.30	0.6-6	0.10-0.20	0.0-2.9	---	.32	.37			
	24-60	---	---	1-10	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9	---	.24	.28			
MwB: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
MwB: Berkshire	0-1	---	---	3-10	1.10-1.15	0.6-6	0.06-0.22	0.0-2.9	2.0-5.0	.20	.24	5	8	0
	1-24	---	---	3-10	1.15-1.30	0.6-6	0.10-0.20	0.0-2.9	---	.32	.37			
	24-60	---	---	1-10	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9	---	.24	.28			
MwC: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
Berkshire	0-1	---	---	3-10	1.10-1.15	0.6-6	0.06-0.22	0.0-2.9	2.0-5.0	.20	.24	5	8	0
	1-24	---	---	3-10	1.15-1.30	0.6-6	0.10-0.20	0.0-2.9	---	.32	.37			
	24-60	---	---	1-10	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9	---	.24	.28			
MwD: Marlow	0-3	---	---	3-10	1.00-1.30	0.6-2	0.10-0.23	0.0-2.9	---	.20	.24	3	3	86
	3-28	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	28-60	---	---	3-10	1.70-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.20	.24			
Berkshire	0-1	---	---	3-10	1.10-1.15	0.6-6	0.06-0.22	0.0-2.9	2.0-5.0	.20	.24	5	8	0
	1-24	---	---	3-10	1.15-1.30	0.6-6	0.10-0.20	0.0-2.9	---	.32	.37			
	24-60	---	---	1-10	1.30-1.60	0.6-6	0.10-0.18	0.0-2.9	---	.24	.28			
MxB: Masardis	0-2	---	---	5-12	0.85-1.15	2-6	0.08-0.15	0.0-2.9	0.0-2.0	.10	.17	2	7	38
	2-15	---	---	5-12	0.90-1.20	2-6	0.06-0.15	0.0-2.9	1.0-4.0	.10	.15			
	15-22	---	---	1-8	1.00-1.40	6-20	0.03-0.10	0.0-2.9	0.5-2.0	.10	.20			
	22-60	---	---	0-5	1.40-1.70	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.05	.17			
MxC:														

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
MxC: Masardis	0-2	---	---	5-12	0.85-1.15	2-6	0.08-0.15	0.0-2.9	0.0-2.0	.10	.17	2	7	38
	2-15	---	---	5-12	0.90-1.20	2-6	0.06-0.15	0.0-2.9	1.0-4.0	.10	.15			
	15-22	---	---	1-8	1.00-1.40	6-20	0.03-0.10	0.0-2.9	0.5-2.0	.10	.20			
	22-60	---	---	0-5	1.40-1.70	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.05	.17			
MxD: Masardis	0-2	---	---	5-12	0.85-1.15	2-6	0.08-0.15	0.0-2.9	0.0-2.0	.10	.17	2	7	38
	2-15	---	---	5-12	0.90-1.20	2-6	0.06-0.15	0.0-2.9	1.0-4.0	.10	.15			
	15-22	---	---	1-8	1.00-1.40	6-20	0.03-0.10	0.0-2.9	0.5-2.0	.10	.20			
	22-60	---	---	0-5	1.40-1.70	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.05	.17			
My: Medomak	0-12	---	---	2-10	0.90-1.20	0.6-2	0.20-0.30	0.0-2.9	2.0-10	.32	.28	5	8	0
	12-27	---	---	2-10	1.10-1.35	0.6-2	0.20-0.30	0.0-2.9	0.5-2.0	.49	.49			
	27-60	---	---	2-10	1.30-1.50	0.6-2	0.20-0.30	0.0-2.9	0.0-2.0	.49	.49			
Na: Naumburg	0-8	---	---	1-5	1.20-1.50	2-6	0.05-0.09	0.0-2.9	3.0-7.0	.17	.17	5	2	134
	8-31	---	---	1-5	1.20-1.50	6-20	0.06-0.08	0.0-2.9	---	.17	.17			
	31-60	---	---	1-5	1.45-1.65	6-20	0.04-0.06	0.0-2.9	---	.17	.17			
PaB: Peru	0-8	---	---	3-10	1.00-1.30	0.6-2	0.14-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-25	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	25-60	---	---	3-10	1.60-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.24	.28			
PaC: Peru	0-8	---	---	3-10	1.00-1.30	0.6-2	0.14-0.23	0.0-2.9	2.0-6.0	.24	.24	3	3	86
	8-25	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	25-60	---	---	3-10	1.60-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.24	.28			
PbB:														

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter Pct	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In							
PbB: Peru	0-3	---	---	3-10	0.80-1.00	0.6-2	0.16-0.24	0.0-2.9	---	.20	.24	3	3	86
	3-25	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	25-60	---	---	3-10	1.60-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.24	.28			
PbC: Peru	0-3	---	---	3-10	0.80-1.00	0.6-2	0.16-0.24	0.0-2.9	---	.20	.24	3	3	86
	3-25	---	---	3-10	1.30-1.60	0.6-2	0.06-0.20	0.0-2.9	---	.32	.37			
	25-60	---	---	3-10	1.60-2.05	0.06-0.6	0.05-0.12	0.0-2.9	---	.24	.28			
Pg: Pits	0-6	---	---	0-1	---	6-20	0.01-0.02	0.0-2.9	0.0-0.1	.02	---	---	8	0
	6-60	---	---	0-1	---	6-20	0.01-0.02	0.0-2.9	---	.02	---			
Rc: Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
RmC: Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
RmE: Rock Outcrop	0-60	---	---	---	---	---	---	---	---	---	---	---	8	0
Lyman	0-2	---	---	2-10	0.75-1.20	2-6	0.13-0.24	0.0-2.9	---	.20	.28	1	---	---
	2-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
Sc:														

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
Sc: Scantic	0-7	---	---	15-40	1.05-1.22	0.2-2	0.24-0.34	0.0-2.9	3.0-9.0	.32	.32	4	6	48
	7-42	---	---	20-55	1.15-1.75	0.0000-0.2	0.13-0.28	3.0-5.9	0.5-3.0	.49	.49			
	42-60	---	---	35-55	1.40-1.80	0.0000-0.2	0.06-0.16	3.0-5.9	0.0-0.5	.49	.49			
Sp: Searsport	0-9	---	---	0	0.55-0.75	0.2-6	0.20-0.45	---	80-99	---	---	4	8	0
	9-12	---	---	1-5	1.15-1.35	6-20	0.01-0.13	0.0-2.9	3.0-20	.17	.17			
	12-51	---	---	0-2	1.35-1.55	6-20	0.01-0.09	0.0-2.9	0.0-0.5	.17	.17			
	51-60	---	---	0-2	1.35-1.55	6-20	0.01-0.09	0.0-2.9	0.0-0.5	.10	.15			
StB: Sheepscot	0-3	---	---	3-5	1.00-1.30	0.6-6	0.11-0.21	0.0-2.9	2.0-6.0	.17	.17	2	3	86
	3-17	---	---	1-5	1.20-1.50	0.6-6	0.06-0.15	0.0-2.9	0.5-1.0	.10	.15			
	17-25	---	---	0-3	1.45-1.70	6-20	0.02-0.09	0.0-2.9	0.5-1.0	.10	.20			
	25-60	---	---	0-3	1.45-1.70	6-20	0.01-0.06	0.0-2.9	0.0-0.5	.05	.17			
Su: Sulfhemists	0-10	---	---	0	0.10-0.70	0.6-20	0.18-0.36	0.0-2.9	20-90	---	---	2	---	---
	10-48	---	---	0	0.20-0.80	0.6-20	0.18-0.36	0.0-2.9	---	---	---			
	48-99	---	---	2-35	1.25-1.50	0.0000-2	0.10-0.26	0.0-2.9	---	.64	.64			
Sulfaquents	0-5	---	---	18-35	1.20-1.50	0.2-2	0.12-0.24	0.0-2.9	5.0-20	.32	.32	5	8	0
	5-65	---	---	18-35	1.30-1.60	0.0000-0.2	0.12-0.24	3.0-5.9	0.0-20	.37	.37			
Sw: Swanville	0-9	---	---	10-35	1.00-1.30	0.6-2	0.22-0.35	0.0-2.9	3.0-8.0	.28	.28	3	5	56
	9-26	---	---	18-35	1.20-1.70	0.06-0.6	0.14-0.30	0.0-2.9	0.5-3.0	.49	.49			
	26-60	---	---	18-35	1.55-2.00	0.06-0.6	0.10-0.27	0.0-2.9	0.0-0.5	.49	.49			

TrB:

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
TrB: Tunbridge	0-8	---	---	5-9	0.80-1.20	0.6-6	0.14-0.23	0.0-2.9	2.0-8.0	.24	.24	2	3	86
	8-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.20			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
Lyman	0-8	---	---	2-10	0.75-1.20	2-6	0.08-0.25	0.0-2.9	1.0-4.0	.28	.28	1	---	---
	8-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
TrC: Tunbridge	0-8	---	---	5-9	0.80-1.20	0.6-6	0.14-0.23	0.0-2.9	2.0-8.0	.24	.24	2	3	86
	8-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.20			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
Lyman	0-8	---	---	2-10	0.75-1.20	2-6	0.08-0.25	0.0-2.9	1.0-4.0	.28	.28	1	---	---
	8-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
TrD: Tunbridge	0-8	---	---	5-9	0.80-1.20	0.6-6	0.14-0.23	0.0-2.9	2.0-8.0	.24	.24	2	3	86
	8-26	---	---	3-9	1.20-1.40	0.6-6	0.10-0.21	0.0-2.9	2.0-6.0	.20	.20			
	26-31	---	---	3-7	1.20-1.50	0.6-6	0.09-0.15	0.0-2.9	1.0-2.0	.20	.24			
	31-35	---	---	---	---	0.010-20	---	---	---	---	---			
Lyman	0-8	---	---	2-10	0.75-1.20	2-6	0.08-0.25	0.0-2.9	1.0-4.0	.28	.28	1	---	---
	8-16	---	---	2-10	0.90-1.40	2-6	0.08-0.28	0.0-2.9	---	.32	.37			
	16-20	---	---	---	---	0.010-20	---	---	---	---	---			
Ud: Udorthents	0-60	---	---	1-15	1.00-2.00	0.06-20	0.01-0.20	0.0-2.9	0.5-10	---	---	5	---	---

Physical Properties of the Soils - Continued

Knox And Lincoln Counties, Maine

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility Pct	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw Kw	Kf Kf	T T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In		Pct					
Ud: Urban Land	0-6	---	---	---	---	---	0.00	---	---	---	---	---	---	